

L

AN  
ATTEMPT  
To Discover the  
LONGITUDE  
At SEA,  
PURSUANT  
to a Bill Proposed in a Late  
ACT of Parliament.

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By FRANCIS HALDANIAN, Esq.

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LONDON,  
Printed ANNO DOMINI, 1711.  
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Inner-Hall. (Price 12*s*)

ИА  
ТЯМПТА  
от Diderot  
ЛОНГИДЖ  
МЭЗА  
титул

Этот вид  
от Diderot

и вспомнил  
как это было

один из  
дней в Париже  
все это было

TO THE

**R**ight Honourable Thomas Earl  
of Pembrook and Montgo-  
mery.

The Right Honourable Philip Lord  
Bishop of Hereford.

The Right Honourable George Lord  
Bishop of Bristol.

The Right Honourable Thomas Lord  
Trevor.

The Honourable Sir Thomas Han-  
mer, Baronet.

*The*

# The Dedication.

The Honourable Francis Robarts,  
James Stanhope, William Clayton,  
William Lowndes, Esq;

The first Commissioner of the Admiralty.

The first Commissioner of the Navy.

The first Commissioner of Trade.

The Admirals of the Red, White,  
and Blue Squadrons.

The Master of Trinity House. The  
President of the Royal Society. The  
Royal Astronomer of Greenwich. The  
Savilian, Lucasian, and Plumian Pro-  
fessors of the Mathematicks in Oxford  
and Cainbridge.

Commissioners appointed by Act of  
Parliament for trying and judging of  
all Proposals, Experiments, and Im-  
provements relating to the Discovery  
of

## The Dedication.

*of the Longitude at Sea. This At-  
tempt for it's Discovery is bumbly pre-  
sented by*

Your most Humble, and

most Obedient Servant,

*Fr. Haldanby.*

The Delicacies

of the Islands in the West Indies  
and Brazil in Particular.

From the Examples of

Most Curious Seats

of Nature.

~~the Author's Name~~

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TO THE  
Right Honourable  
**James Stanhope, Esq;**

One of his Majesty's Principal  
Secretaries of State.

THIS small Attempt to discover  
the Longitude at Sea, assumes  
a Confidence (which puts the Author  
to the Blush) to Address it self, in a  
particular manner to a Person of your  
extraordinary Rank and Merits, without  
being known, without any name in  
World, and without the Ceremony of  
an Interdict or anything else.

It is, I must confess, a strange and uncommon Assurance; and such as can expect Pardon only from that uncommon Goodness with which You are in-dued. But after the bold Attempt to Discover the Longitude at Sea, and mingle himself amongst the daring Adventurers in so perillous an Undertaking, some Grains of Allowance may be given to this, yet greater Audacity to present to Your particular Consideration such a trifle as this possibly may prove, if the success in his Attempt does not answer his Expectation, of which however he is not without some hopes.

But how audacious soever the Author may seem to be, he is not hardy enough to desire the Honour, Sir, of Your Protection, or the least favourable Countenance towards a thing that must stand or fall by it's own Merits, or Demerits.

Sir, Your penetrating Judgment, and Skill in the Mathematicks will soon determine

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determine the fate of this Attempt. The Method is obvious, and soars not so that height, which the more learned have flown, but yet is Mathematical, and may easily be apprehended by the skill in Navigation. It's facility can be no Crime if it answers the end for which it is design'd ; and if it contain'd thoughts of the highest elevation, and yet fail'd of the end, it cou'd avail nothing towards it's Success.

If You please, Sir, to honour this with the permission to kiss Your Hands, let it's Doom be what it will ; the satisfaction of the Honour it has receiv'd will lay an eternal Obligation upon,

Sir,

Your most Obedient, and

most Humble Servant,

Fr. Haldanby.

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vilem etiam ex p[ro]p[ri]e. Namq[ue] uol[er]e  
alium uol[er]e ut n[on] solum q[uod] est d[omi]ni  
est uol[er]e q[uod] est d[omi]ni et n[on] uol[er]e q[uod] est  
uol[er]e q[uod] est d[omi]ni sed uol[er]e q[uod] est  
uol[er]e q[uod] est d[omi]ni sed q[uod] est d[omi]ni  
q[uod] est d[omi]ni

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bus, described from my

from Hippie Seeds

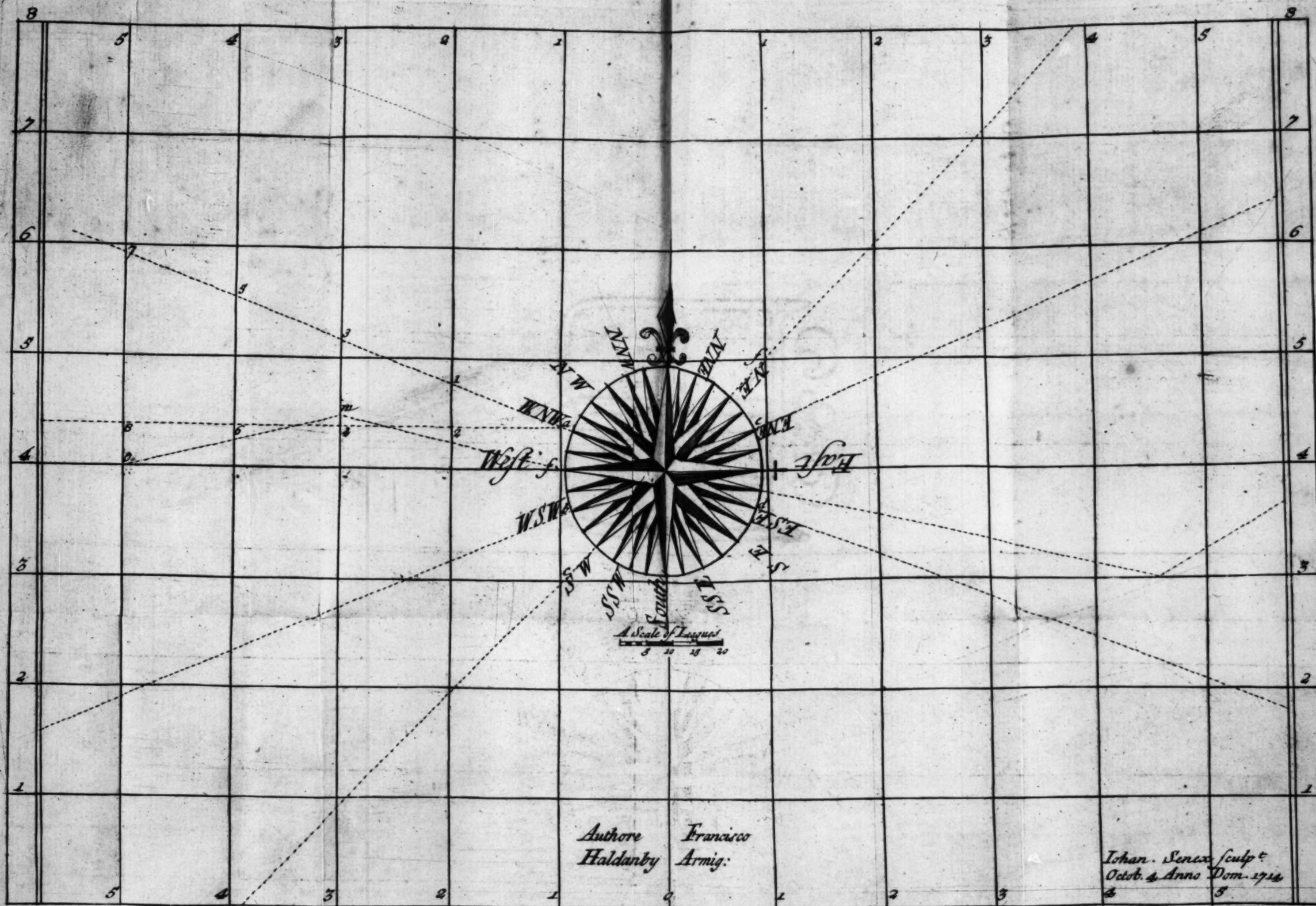
John H. A.



HE Author's Intention at present, being only to frame such a Draught, or Scheme, as may shew that the Longitude at Sea is to be known as well as the Latitude; and that his Method leads to that Knowledge. It is not to be expected, in this short View which he presents to the Publick, that any more should be discover'd than what sufficeth to make plain the feasibility of the Longitudes being made as well known as the Latitude: And that (pursuing the Method, of which the Foundation is here laid) he shall hereafter clearly discover the Longitude in any part of the Sea. And that

that his Method shall be altogether as serviceable in the Navigation of the longest Voyages, either Eastward or Westward, as the knowledge of the Latitude is to the Sailing North or South; and with as little danger of losing the Longitude, as there is of losing the Latitude.

The Instruments, hereafter to be framed, will so exactly regulate and proportion the Longitude to the Latitude from East and West to North and South, that having recourse to them upon any occasion; the Longitude of any part of the Sea in which they are, will as manifestly appear as the Latitude. Which will extend to the security of Ships, within any Degree or Number of Leagues mention'd by the Act of Parliament.



*The Explication of the Scheme. The Degrees of which are within the two Tropics.*

THE blank Line (*a*) shews that a Ship steering her Course directly West North West, gains about eight Leagues of Latitude, and Twenty Leagues or one Degree of Longitude, and so in proportion to every eight Leagues of Latitude, Twenty Leagues or one Degree of Longitude. Within a certain number of Degrees (within the Tropics) but not universally, because the same proportion will not hold throughout. But will proportion'd by the Instruments which are to be made hereafter.

The blank Line (*b*) shews the same from the Point West South West.

The

The blank Line (*c*) plainly shew-  
eth, that bearing her Course more to  
the Southward, she gains more Leagues  
of Latitude, in proportion to one De-  
gree of Longitude, than in the Two  
Points (*a*) and (*b*), which also hap-  
pens in the opposite Points (*d*) (*e*)  
and (*f*), which with all other Va-  
riations, will be exactly regulated  
and proportion'd by the Instruments  
that are to be made.

*One Example explain'd, by which the  
rest may be easily understood.*

O PEN your Compasses, and place  
their Feet upon the Sections  
(1) and (2) then measure the space  
upon the Scale of Leagues; where  
you'll find about Eight Leagues of  
Latitude, then open your Compasses  
from Section (2) to (*a*) and you'll  
find that the has fail'd one Degree  
of Longitude. Remove your Compa-

les and place their Feet at the Sections (3) and (4) you'll find double the number of Leagues in Latitude and Two Degrees of Longitude. Do in like manner to the Sections (5) and (6) and (7) and (8) you'll find the same Increase of Longitude in proportion to the number of Leagues of Latitude. Thus the Longitude will always be certainly known by the Latitude.

The Curviline shews, that steering yet more directly East or West, from the letter (*a*) by bending her Course first Northward, and then Southward, where, having gain'd about Ten Leagues of Latitude, she has sail'd Forty Leagues, or Two Degrees in Longitude. Then doubling the Point (*m*) and steering Southward to the Point (*o*) having regain'd about Ten Leagues of Latitude, she has sail'd Eighty Leagues, or Four Degrees of Lon-

Longitude. By which Computation  
she may always keep her Longitude.

The Author has avoided Length,  
to the end he might not offer any  
thing that would be tedious to his  
Reader. And hopes that what he has  
set forth in few Words, will suffice  
both to explain his Meaning, and  
shew that his Method will attain to  
the perfect Discovery of the Longi-  
tude, when all his Instruments shall  
be compleated.

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F I N I S.

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